Biology 11 Portfolio: Microbiology Name:

In this section of your portfolio you should include:

1. A description (including facts to back up your answer) of why viruses are considered to be alive or not alive.
2. An explanation, in words or diagrams or both, of the lytic and lysogenic cycles of a cold sore (herpes virus). What is happening during each of these cycles in relation to the cold sore?
3. How does your body defend against pathogens such as bacteria and viruses? Explain at least three ways the body can defend against micro-organisms.
4. Compare and contrast the processes of binary fission and conjugation. Drawings (your own) and a description of each would be a good idea.
5. Besides conjugation, explain two other ways a bacteria can alter its genetic information.
6. Explain the evolution of antibiotic resistance. How is our use of antibiotics contributing to the development of "superbugs"?

**The section is due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ *(this is also the test date!!)***

**Marking:**

* Completion of the required items: /3
* Depth of knowledge: /5
* Quality of the work: /2

**TOTAL: /10**